Elias Durand
Apothecary
Chestnut St
Philadelphia

Prof. Asa Gray

Dear Sir,

I have just seen, for the first time, a catalogue of Texian plants collected by Mr Leidheimer and distributed among subscribers. I think I was one of them and feel sadly desappointed not to have received my share. If any more lots remain in your hand, you will oblige me very much to send me one and to consider me, for the future, as a subscriber to all plants coming from the other side of the Mississippi, from North Canada and South Florida.

I hope you are doing well and almost ready to favor us with the last part of the 2d Vol. of the North American Flora. Some of my old subscribers are occasionally grumbling about my ears; but I half satisfy them by telling them (what I really believe to be the case) that incessantly receiving new plants from the far West, you wish to avoid the necessity of giving too long a supplement.

Very respectfully yours &c
C. Durand

Phil. Dec. 6th 1845.

1845
d. Dec. 11th
r. Dec 22d
a. Jan 3d 1846

A. Gray.
Cambridge

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Rec^d Aug. 15th
Ans Sept 3d

George Engelmann, Esq^r St Louis, Mo

Dear Sir,

I received a few days ago, from St Louis, a parcel of Plantæ Lindheimerianæ, for which, supposing them to come directly from Mr Lindheimer, I had already written a letter of acknowledgement to him, inclosing ten Dollars, a/c/ount marked on the package. But reflecting that Mr L. is, most probably, at the present moment, engaged on a botanical journey far from St Louis, I address myself directly to you as connected with the Lindheimerian Collections. I do this, Sir, with so much the more pleasure as I have long sought an opportunity to open a correspondence with you, who have, for so many years, been laboriously and successfully engaged in fostering and advancing the botany of the Western regions.

I regret exceedingly that our friend, Prof A. Gray, neglected in due time, to record my name on the list of the Subscribers to these very interesting Collections — as I had requested him to do, even before the appearance of his advertisement in Silliman's Journal: Otherwise, instead of one third, I should have received the whole of the first distributions, and my name would stand one of the first on the list, securing me a full share in the forthcoming distributions. I would be much indebted to you, if you could supply me, one Day or other, with the defficiency I have thus sustained.

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In the mean time, my Dear Sir, permit me to ask you whether you would not favor me with the advantage of increasing my stock of Western Specimens, either by exchanging such of the accompanying list as you might spare from your duplicates — With specimens of the atlantic States from Maine to Florida, or by obtaining them from you on the same terms as the Lindheimerian plants.

My Collection of extra-mississipi specimens is already very large, probably 2000 in all; having received directly the greater portion of Nuttall's Arkansas & Oregon; of Nicollet's N. Western and Dr Hale's Louisiana plants, A small parcel from Mr Beyrich &c. With such a stock, I must expect to find many duplicates in invoices of Western plants; for instance, out of 123 lately received from you, 52 only were new to my herbarium, but good authentic duplicates are always welcome and I like to have the same plant from different localities.

I hope, Dear Sir, you will favor me with an answer, and will give me some particulars about the movements of Mr Lindheimer and the expectations from his late explorations.

Believe me very respectfully your humble Servant: E. Durand

Philadelphia August 8th 1846.

Inclosed a ten Dollars of the bank of the State of Missouri to pay for the plants just received.

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The accompanying list is from Drs Torrey & Gray's N. A. flora as far as it goes. I have no plants of Nuttall's expedition to Oregon & California farther than the Lobeliaceæ — Mr. Nuttall left the city for England, at that time, expecting to return the next year; but has not done it. I believe his plants have remained in a warehouse in this city and I fear less they have suffered from insects or moisture. Any Western plants, not common to this side of the Mississippi, belonging to the remaining families from Lobeliaceæ, are very much desired.

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PAID

AUG

George Engelmann, Esq^r

St. Louis —

Missouri

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GEORGE ENGELMANN PAPERS

Durand

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Recd Oct 13th
Ans Nov 13

Dr George Engelmann, St Louis, Mo.

My dear Sir,

Your favor of September 3d has been duly received. I am highly pleased with your acceptance of my offer for exchanges, and hope they will be fruitfull to both of us.

Our mutual friend, Dr Gray, had already written to me respecting the Cuscutae of Rafinesque, which he requested me to send you, if I had any; But, unfortunately, when I bought Rafinesque's herb. I found it in the most awful and filthy condition, having been, for two years, forgotten in the garret of an old Warehouse. One half had been destroyed by the rats and dampness, and the package containing the genus Cuscuta was one of the many from whence I could not recover anything. The only species which I possess are: C. americana, europaea, Epithymum, compacta (The 2 last from Mr Curtis, N.C.) and your Nemopetala from Lindheimer's collection. I have no specimen of C. Californica.

I shall be happy, Dear Sir, to have a set of your american Cuscutae with your own Lable, and your hybrid Verbena, as well as any other Specimen you can furnish me from my list of Desiderata. In the meantime, please to forward me, as soon

as possible your own list of desiderata, as I shall soon begin the laborious task, which I have the habit of performing every winter — That of overhauling my collection from begining to end, in order to clear it from worms (†), and the new plants which I have procured through the year and pick out from it such duplicates as I can spare for exchanges.

I have almost full sets of Nuttall's arkansas, Oregon and California plants; all Nicollet's N.E. Specimens, but no duplicates of them. Should Mr Lindheimer ever visit Oregon, I beg you to consider me as a subscriber to his collections, as Nuttall Specimens are all very poor. Dr Gray told me that you and himself have sent an explorer to Ste Fee, at your own expense with the intention of distributing Specimens in the same way as Mr Lindheimer's. I wish you also to consider me as an applicant for my share, if admissible.

Permit me to express to you the pleasure I experience in becoming one of your correspondents and believe me respectfully and sincerely yours

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

E. Durand

Philadelphia Oct. 5th 1846

† I have found a most complete preservative of Specimens against the Worms, in a Saturated Ethereal Solution of bichloride of mercury, mixed with camphine.

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Rec^d Nov 4^th
Ans Jan 15

Philadelphia April 25^th 1847

Dr George Engelmann, St Louis Mo.

Dear Sir, I send you by Mr Rosier of St Genevieve a small package containing 31 Specimens of the 47 desiderata specified in your letter of nov. 13^th last. They are small, but as they are rare, I have not much to spare. I hope you will receive them in good condition. With the exception of a few Asters & Solidagos, and of the Desmodium humifusum which I have never seen, nor been able to procure from any of my correspondents (distinct from some forms of the Lotundifolium) — I have all the rest but no duplicates — The Crantzia lineata, I will gather for you on the shores of the Delaware, where it is very common. This beautiful little plant is in such demand that I have hardly any left. If I can furnish you with any other plant next winter, when I overhaul my herbarium, I will do it with the greatest pleasure; only send me your list of desiderata in time.

In the package of Plantae Leadbeaterianae which I received last year, I find a specimen which by mistake is marked Liatris elegans. I thought at first it was the psychostachya which it resembles at first sight by its long graminean leaves; but on minute examination I found it to be the mucronata, not enumerated in your catalogue of 1845. I have compared it with Specimens received from upper La. This species is easily distinguished from the psychostachya (graminifolia &c.) by its small heads; and its involucral scales narrow & mucronate.

I hope soon to receive my share in the new distribution of Texas plants, Please to let me have one of the most complet sets and Sent it to me directly not through your agent in N. York. In the same time, please to

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draw upon me for the amount.

Believe me very sincerely yours

E. Durand

I have a friend not a botanist, collecting for me on the plantation along the Colorado, above Metamoras — Perhaps shall procure some thing new from him.

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Decr. Febr. 10th
Ans June 10th

Dr. G. Engelmann, St. Louis, Mo.

Dear sir,

The small package which I sent you in April last, had been entrusted to the care of a merchant of Ste Genevieve, who promised me to take it himself to St. Louis, which he was in the habit of visiting at least once a month. I regret that he retained it so long, as I rejoice at your being pleased with the envoice. I may, hereafter, find some more for you among my duplicates.

I was beginning to feel very uneasy about the Texas collection of 1846, which I have been expecting for a long time. I feared lest I had been forgotten this time as I was with the Lindheimerian plants. I shall be very happy to receive both collections of 1846&47 as soon as possible. As to the collections of northern Mexico, I should like to have a full set of the largest and richest of them, and if possible, all the specimens of the others which are not included in that collection; otherwise, I would be exposed to have too many duplicates and to incurr too great an expense. My herbarium contains already so many plants from the immense regions between the Mississipi & pacific ocean that one half of the plants of Lindheimer, which I received from you, became duplicates for me.

When you forward me your packages, please to let me know by post the amount owing for them and draw upon me at sight for the same, through the commission house through which they will be forwarded. You will oblige me to be very particular in the selection of the specimens and to affix your

own table to each of them, with the name of the collector, as I wish them, particularly, to be authentic Specimens.

I have just received the 11th Volume of Decandolle's Prodromus, containing Orobanchea by Reuter; Acanthacea by Nees & Verbenaceae by Schauer; This great work is progressing a great deal faster than the north american Flora of our friends Dr. Torrey & Gray.

Believe me very respectfully
My dear Sir
Your devoted Servant
E. Durand

Philadelphia Jan. 30th 1848.

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GEORGE ENGELMANN PAPERS

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Rec'd June 20th
Ans July 24

Dr Engelmann, St Louis Mo

Dear Sir,

Monsieur Pracul, a french naturalist sent by the Musée d'histoire naturelle de Paris on an exploring expedition to the Californias, intends paying you a visit on his passage through St Louis.

Recollecting that you were engaged upon a monograph of the Cuscuta and you had requested me, sometimes ago, to send you such as I might have from Rafinesque's herbarium or others, I send you by him a sample of a Californian Cuscuta, collected by Mr Gamble and given to me by Mr Nuttall. If it proves to be new to you as it was to him, please to call it Nuttallii. Being the only sample I have, you will be good enough as to return it to me, unless you desire to keep it as the original of a new species if it prove such.

I am anxiously expecting the parcels from Ste Fé, Texas &c. which have been promised to me. Dr Gray from whom I received a letter a few days ago, tells me that his share is probably on the way, I may also expect mine soon.

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In great hurry, very respectfully yours
E. Durand

Phila June first 1848.)

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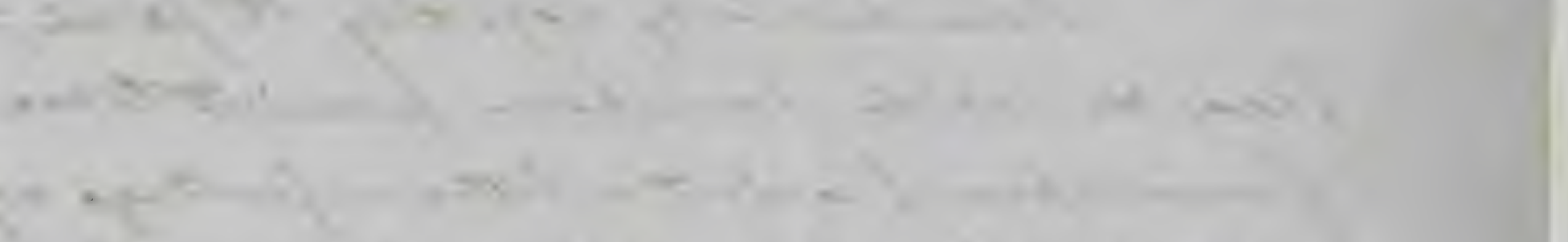
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Dr Engelmann

St Louis

Favor
of Monsieur Trecul.

Missouri

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Rec^d July 19^th
Ans July 24^th

Dr George Engelmann,
St Louis Mo.

My Dear Sir,

Your kind letter of June 9^th was duly received, as was, previously, Your Sketch of the flora of new-Mexico.

About two weeks ago, Your box of Fendler collection arrived to me safe by Adams Express, with some plants of the vicinity of St Louis which you had the goodness to add to the envoice. All these plants are beautifully preserved and good Specimens.

I feel extreamly anxious to find leisure for placing them in my herbariam and comparing some of them with their congeners received from Nuttall and other sources. If I find matter for some observations, I will transmit them to you. I shall receive with pleasure the catalogue of Mr Fendler's plants, and the Specimens of the Texas collections, which you have given me hope soon to received.

I ought to have sent you sooner the enclosed drafft of <u>thirty six Dollars & 70 cents</u>, amount of Mr Fendler's plants. Pressure of Business has caused me to postpone to this day the execution of this duty.

I take this opportunity, my dear sir, to recommend to your attentions a young friend of mine, now in St Louis. He is the son of Dr Huttner of Matagorda, Texas, an old and intimate friend of more than thirty years. If any of your scientific pioneers proceed to that part of the country, you may recommend them to him, by using

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my name — They will be well received. Dr. Huttner is a franco — german, well acquainted with the Whole of Texas and one of the best known men in that region. His son is now in St. Louis with the family of Dr. Prof.r Rayburn and is looking for a situation in a mercantile house. He may be in want of some references; be so good as to permit him to make use of your name. I have known him from his infancy and I can recommend him in every respect, moral and intellectual. I write to him to call upon you and make your acquaintance. Anything you can do for him will be thankfully acknowledged by

Your respectful servant

E. Durand

Philadelphia 11 July 1848.

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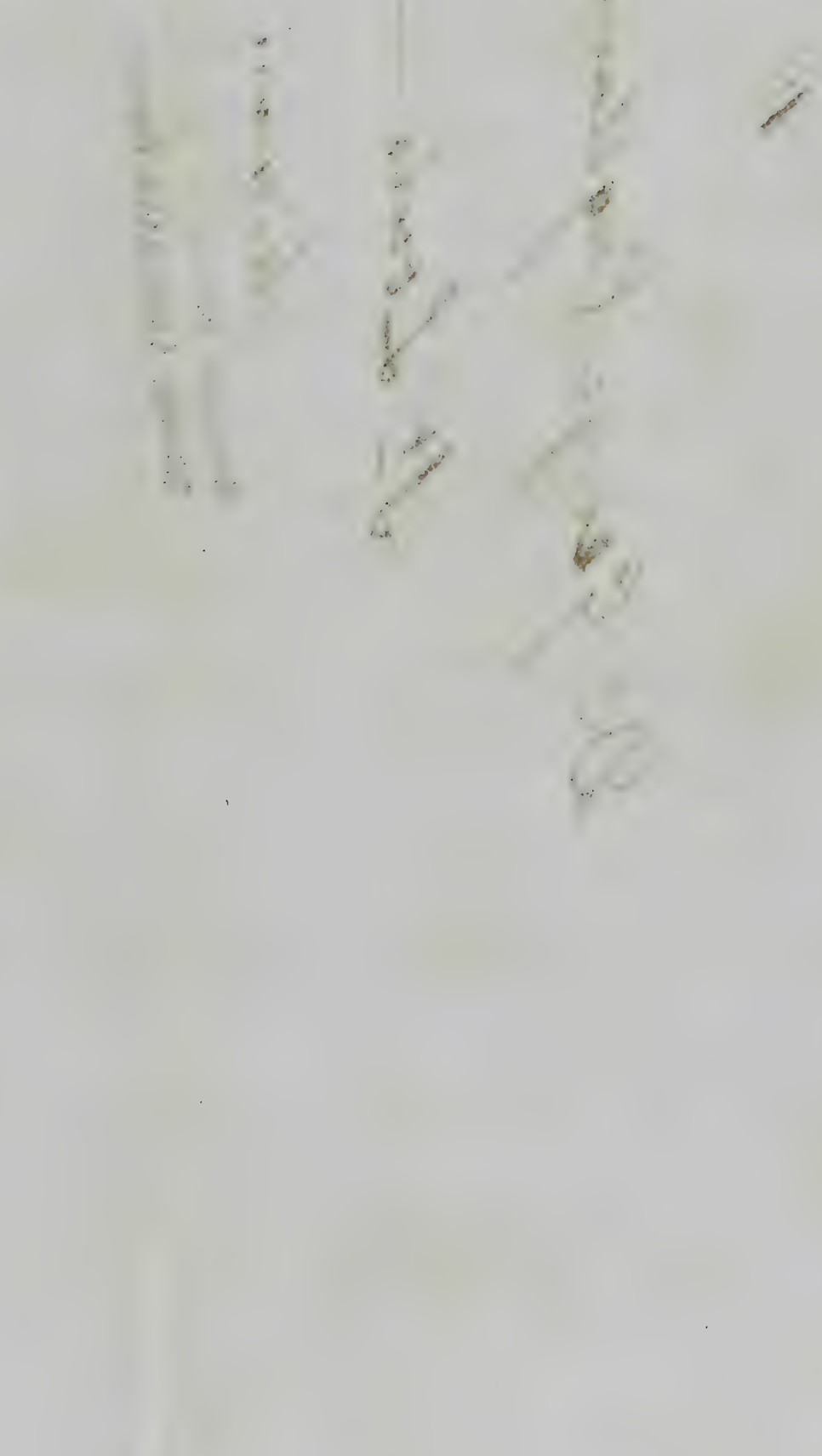

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Dr George Engelmann

St Louis —

Missouri

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Rec'd Jan 21st
Ans Jan 27

Philadelphia Sept. 25th 1848

Dr George Engelmann, St Louis, Mo

My Dear Sir,

Wishing to do all in my power to promote the object of your inquiries, I have postponed to this Day my answer to your letter of 25th ultimo. For ten years past, I have been obliged to give up all my botanical excursions, and, I may say, my botanical Studies, on account of my age, my extremely weak eyes and pressure of business; But with the view to assist you, if I could, I have again revisited my old localities and made a few observations which may prove serviceable to you, with the few samples which you will receive with this letter. The season, unfortunately, Was too far advanced to permit me to examine the flowers and seeds of our small Sagittaria, which, although found in large beds along the shores of the Delaware, seems only to be just emerging from the ground, as I might have expected to find it in the month of may. Next year, I shall be able to watch it and make the observations and drawing you require.

My first intention Was to send you all my Stock of Sagittaria; but the package being too large and finding no opportunity, I have come to the conclusion to send you only, by post or express, such samples as may be of some Service to you:

In conjunction With my Philadelphia Colleagues, except one, I think Dr Gray may have been too hasty in confounding your Echinodorus With our Sagittaria pusilla. However Mr Porter, a very Zealous & acute botanist, After having compared both plant, as well as he could, in the dry State inclines to think that Dr G. is right. But throwing all the north amer. Sagittaria into a single Variable Species, We all plead him in the Wrong.

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I send you several forms of Variabilis which you may not have seen as yet. The S. obtusa of Wild. which grows along the tid-water shores of the Delaware & Schuylkill, with, invariably, dioecious flowers — affecting all the forms and sizes of the common Variabilis, from the large 12 by 8 inch leaf to the delicate gracilis, and from the obtuse to the very acuminate. * The fruber cens, a scarce variety, growing in the marshes of N. Jersey.

You will find a numerous series of heterophylla of all forms and sizes. var. a. The large, thick, oval leaf, grows along the banks of Delaware, with the dioecious kind, but do not mix together. This var. is found in beds 10 to 50 feet long, frequently surrounded by the dioecious ~~plant~~ — var. B. grows along the Schuylkill, the leaf is narrow, lanceolate, acute. You will find a singular ~~sp~~ specimen from Mr Porter, a small fellow with arcuate petioles & peduncles, which character Mr P. says invariable. His first impression was that it might be the pusilla. You have also the singular specimen, collected a few days ago, by Mr Sauer at the mouth of a creek, falling in the Delaware 4 miles below Th., Jersey side, the smaller of which has leaves similar to your echinodorus. As the Varieties I refer to the heterophylla for their almost sessile pedicels of the pistillate whorl. Rafinesque Specimen from the Ohio?, might be an exception, Three similar spec. have received from him 3 different names, natans, ovalifolia, alismaefolia.

You have also specimen of our acutifolia and simplex. These two species might, probably, be thrown into the same species. However they seem to differ by the very long and delicate pedicels of the latter, and the shorter & remoter ones of the acutifolia. The seeds, I think be advanced enough for microscopical observations.

I have another specimen which I cannot send you, on account of its size — and because the flowers are hardly expanded, which may

* The seeds are small enough to contain the variabilis.

proves a fourth species. It comes from the mountain lakes of Pennsa.
I found in the herb. of the Academy of Sciences a perfectly similar spec.
labelled by Dr Schweinitz L. rigida from the Lehigh river. It has long
graminean leaves 12 or 15 inch. long by 3 lines wide with a few leaves
terminated by a lanceolate expansion - numerous whorls. 6 or 8. —

Among the southern & western species which I have in my herbarium
are the lanciifolia, some bad spec. of natans - another from Louisiana
labelled by Dr Hale graminea which I take for the rigida of Pursh.
for its rigid, strongly nerved leaves and subracemose flowers - The rigida
of Schw. might be the graminea. I have also a beautiful spec.
of Echinodorus radicans, and the fine cordatus which I have just received
from you.

Supposing the L. parvula a good species, we should then have in
Pennsylvania not less than 5 distinct, strikg, species.

In the collection of the Academy, I have found numerous specimens
of exotic sagittaria, almost all them from the West & East Indies and from
South America seem to belong to echinodorus: Among them one labelled Alisma
& sagittaria cordata from Portorico, looks exactly like our echinodorus
radicans, but seem to be erect.

Your echinodorus parvulus is there under the name of Helianthium
also E. cordatus & radicans. - A stout sagittaria with a thick sagittate
leaf, scape very long with few & whorls almost sessile. Another large
sagittaria with large, oval, strongly dentate and veined, external leaves,
the internal leaves lanciform & resembling my specimens of lanciifol.
all them specimens from Louisiana.

There are some specimens, labelled by Dr Pickering L. graminea, which
resemble somewhat my simplex; but the leaves are both lanceolate and sagittate
some sp. have all lanceolate; others all sagittate leaves.

The samples of heterophylla are all of the narrow leaf variety

even considerably narrower than the typ specimens I send you - There are also spec. of S. natans, a very distinct species, with thin elliptic leaves, small and not unlike certain potamogetons. &c. &c.

I have sent you a few specimens of the S. lancifolia & crypta - I have but few specimens of S. lancifolius - The remainder I will send you later in a letter - I could not put my hands upon it that part of my herbarium being yet in great confusion.

Your letter has fixed the attention of our botanists, Messrs Porter and James and several others will go deep into that subject next Summer - You may expect a complete collection of our Sagittaria.

Believe me, My dear Sir, very respectfully

Yours E. Durand

I had occasion a few days ago to write to Dr Gray in answer to an inquiry; I have entertained him with the subject of your letter and my own views.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Rec^d Nov. 19^th
Ans Jan 27

Dr. G. Engelmann, St. Louis.

Dear Sir.

About one month ago, I delivered in the hands of a friend going to New-Orleans, a package for you, containing Sagittaria and other plants, and a long letter in answer to your inquiries. I requested that friend to seek acquaintance with some respectable traveller of St. Louis, who would be willing to take charge of my package and deliver it to you. I am anxious to know whether you have received it. I send you herewith some specimens of Ranunculus, Limosella, Elatine, Isoetes all collected by Mr. Th. P. James along the Delaware in the course of last month. The Sagittaria could not be found in flower. When will you divide the last Texas collection among the subscribers?

In hurry, Your most obt. Servant

E. Durand

Phila. Nov. 9th 1848.

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Philadelphia Nov. 30th 1848

Rec^d Dec 12th
Ans Jan 27

Dr George Engelmann, St Louis Mo.

Dear Sir,

Your letter dated 10th instant came duly to hand. I see by it that you had not yet received mine of a few days previous, in which I sent you some of our small Delaware plants; but I hope that letter reached you a few days afterwards.

As to my first package, which I had confided to a friend going to N. Orleans, I regret extremely that you have not received it as it contained specimens of several species of Sagittaria, in their varied forms, and a few remarks which might have been agreeable & useful to you. There were also specimens of the small Delaware plants. If you have not received this package, I would advise you to write to my friend in New-Orleans and inquire how he has disposed of it. You might, in this way, recover it, most probably. His address is Alfred Bujac, care of Leopold Bujac, Hardware Merchant N. Orleans.

I now send you 3 specimens of Vicinus & Arcenthobium, very small indeed, but as you can only get them from the very scanty specimens of Nuttall. I can give you no opinion about these two genera as I have never examined them; I am only sorry to have them so incomplete that they will be of little use to you.

If Dr Saurgeau ever returns from his visit to the far West, and brings plants with him for sale, I wish you to obtain a set for me. As to those of Dr Gordon, unless the specimens are

very good, I will rather abstain from buying them. / How many kinds? I hope, in a few years, it will be more easy and cheap to obtain specimens of those remote regions.

Had I known the addres of your cousin, E. Hilgard, I would have called to see him. If I meet with him and be able to render him any service, I will do it with great pleasure.

I had, a few days ago, a letter from Dr. Gray. I had sent him some specimens of our Sagittaria gracilis, which he now acknowledges not to be an eglandulosa. I have no doubt that he will also have to change his opinion in relation to the a unique species of northern Sagittaria.

Do not forget to consider me as a subscriber to all good collections south & west of you and do your best not to sent me many of those which I have previously received from you.

Very respectfully your devoted servant

E. Durand

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Dr George Engelmann

St Louis

Missouri.

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MISSOURI BOTANICAL GARDEN

Rec^d Jan 19^th
Ans Jan 30^th

Philadelphia Jan. 8^th 1850

Dr George Engelmann, St Louis Mo

My Dear Sir,

I have received, in good order, the box of Lindheimer's Texas plants. They are fine specimens generally and I am very much pleased with them, although the three fourths of them are but duplicates in my herbaricum, having had them previously either in the first envoie of Mr Lindheimer, or in Fendler's new Mexico plants, or in the copious collection of Mr Ch. Wright of which Dr Gray sent me a fine set. I have also to thank you for the parcel of St Louis plants that you were good enough as to favor me with.

Herewith you will find a draft of $25 on Prof. Th. Peyburn of your city and eleven Dollars in Philadelphia & Ohio notes which, I think, will be correct with you — In all thirty six Dollars.

The package of prairies plants collected by Mr Fendler will be forwarded to Mr Nuttall by the first opportunity, with the information you have given me respecting the misfortunes of this intrepid traveller. What a pity for him and for us all that he could not reach this new region of the Salt Lakes of which we know so little as yet! I hope Mr Fendler will be more successful in his Exploration of the isthmus of Panama which will eventually lead him to California, and hence back through the Mormons settlements. Pray, do not forget me in any collections of Salt Lakes plants that may come to you.

I have already placed in my herbarium all Lindheimer's specimens as far as corymbiferæ. Among the samples that have passed through my

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kinds, I have found two erroneously numbered. One is a kind of Sida,
not a mentioned in the catalogue
of which I send you a small branch, which is numbered 390 – This number
would place it among the Leguminosæ. The other is marked 361 and
a new Gilliesia
looks like a Gaura with small purple flowers, but showing no capsules.
When I have the catalogue which our friend Gray is about to publish,
I will easily find what they are.

Among those last Lindheimer's specimens, I have seen
with pleasure one of Cereus or Mamillaria. How I should like
to possess a set of those beautiful plants which Dr. Wislizenus found
south of Sta Fé. I have only three specimens of that family in
my herbarium, besides our common Opuntia. If you have
any duplicates of them to spare, I would be thankful to you for
a few more.

I shall keep as my usual share in the future collections of
Mr Lindheimer or in the Sta Fé & Oregon collections. As you know
pretty much what I have already, if it is possible to avoid duplicates,
you will oblige me to do it. It may be very immaterial to some european
subscribers to have duplicates as they are constantly exchanging for other
varities; but my collection being merely of north american plants
I have but few occasions for exchanges.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Believe me very respectfully yours

E. Durand

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Nov 2 — Nov 5th

Dr George Engelmann, St Louis.

My dear Sir,

Your favor of 14th instant was duly received. Before answering it, I desired to see Dr Hilgard's Physician, so as to be able to give you an accurate statement of his Spell of Sickness; But the weather has been so bad and the chance to find a physician at home so frequently foiled that I have not been able as yet to have an interview with him.

However, I have since met with Mr Hilgard of Washington to whom I communicated your inquiries and he promised me, Knowing all the particulars of his brothers disease, to give them all to you himself, the very next day.

I owe you an apology, my dear Sir, for having let the very letter that Dr Hilgard brought me from you, unanswered. I had then many occupations on hand and I postponed, postponed until it escaped my memory. I had not failed, however, to request our young friend to present you my respect. I have welcome him as I shall always receive such as are introduced to me by you.

I thank you for the agreable acquaintance I found in Dr Hilgard — I am extremely attached to him and with him

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all the success he deserves. He is a very interesting and highly informed young man and I regret very much the circumstances that have removed him from Philadelphia. We might have done something more for our science. He has more theory than I possess and he can manage the microscope which the state of my eyes does not permit me to use at all.

I have been engaged for nearly two years in compiling a special N. A. herbarium for the Acad. of Sciences. It is made up of all the different herbaria deposited in the cabinet of the Academy (Nuttall, Leconte, Read, Conrad, Pickering, &c.), of numerous parcels from all parts of the country, of rare specimens scattered in the general herb. of the Academy, and all the new species which I can draw from my herb. to the very unique specimens. It will be, I assure you, a very complete thing and perhaps the most complete herb. of North American extant, excepting perhaps Dr. Torrey's. I am just finishing the Labiatae.

In this great undertaking I am able to see how easily the best botanists are, in the hurry or for want of a good occasion to compare numerous species of the same genus, to have prone some are to establish new species on trifling differences of forms, whilst others pack up together species

that are distinct on every point. So far I have a good number of new things, wrongly labelled, or without any names at all. There I keep for examination at a future time, if the almighty is willing to leave me in this world with the good health and constitution I now enjoy.

I bought at the death of Rafinesque his immense collection of trash. He mislook frequently his own species, gave new names to exotic plants with inner. locality, (Appalachian Mountains, Texas, Oregon, &c.) made strange specimen with leaves of one & flowers of another plant — and there I found, at every step, evidences of his roguery or rather insanity. Rafinesque was really a very ingenious and acute man, but he became poor, disappointed & (crazy) he became a rogue through necessity. I never had confidence in him, since he cheated me in the purchase of a thousand specimens, among which the very same species was introduced four times under different names, mutilated as I say above. When I collected for exchanges, & he met me once with a hand full of fine specimens of Pontederia, He found among them, which had all belonged to the same root, three species as P. obliqua and as P. hastata, besides the cordata. Ab uno disce omnes! His ambition was to make new genera and species; but he made many too much.

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You ask me some information respecting Nuttall.
He was well two months ago, although now a very old
man. He lives at a country residence, not far from
Liverpool, regretting this country, where his old age
and stringent conditions of a testament to which he
owes his fortune, prevent his return.

Farewell, my dear sir, and believe me
sincerely yours E. Durand

My compliments to Dr Gilyard with my good wishes
for his success, health and happiness.

Phil. Oct. 31 1855.,

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Recd July 8th
Ans. Aug 11

Dr George Engelmann, St Louis.

My dear Sir,

I had the pleasure, a fortnight ago, to address you a copy of my enumeration of Dr Kane's Polar plants.

I have since been advised, through the kindness of our friend A. Gray, of an enormous blunder which I have committed in the construction of my tables, by my complete ignorance of the existence of Prof. Giesecke's article Greenland, in Brewster's Edinburgh Encyclopedia, in which is a list of 224 phoenogamous species, collected by him in that island, during a residence of several years.

This astounding intelligence fell upon me as a thunder-bolt. — In time, however, to permit me to cancel preface and tables, and reprint more conformably with reality. As soon as it is done (which will not be before the completion of the printing of long memoir by Mr Curtis) I will send you the new sheet, with particular request to destroy the faulty one and substitute this in its place.

With great respect, my dear Sir, your obt
Servant — E. Durand

Phil. July 2d 1856.

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Rec.d Cambridge Sept 19th
Ans. Oct. 1st

Phil. Sept. 16th 1856

Dr. George Englemann, Cambridge.

Dear Sir,

It was not exactly a letter from you I was expecting, but your own person, which, you give me now to understand, I cannot see before three weeks. I would have preferred the ~~latter~~ former, for your own satisfaction of settling the mooted points, whilst it is now time. As for me, my dear Sir, I am, but a crippled old man whom a leg, broken five years ago, does not permit any longer the botanical excursions of old. Our city has so much encroached upon the (Once neighboring) localities, that I should not know now where to find my old acquaintances. The Sagittaria pusilla was occasionally found on the shores of Delaware River; but the best locality was along a brick below Camden, where I could not walk with my old broken leg.

Therefor, not being able to gratify you on this point, I will give you an account of what I have in my own and in the herbarium of Acad. of Nat. Sc. This is my arrangement, and opinions:

1st Sagittaria Variabilis, With all its varieties – obtusa, Willd, latifolia Willd, pubescens, Muhl. Sagittifolia, hastata, Pursh. Angustifolia & gracilis, a variety With two sets of leaves, the greater number narrow lanceolate, others sagittate – perhaps heterophylla of some authors – There a specimen from Nuttall (Oregon) Labelled arifolia, Which to me seems a small form of Var. hastata.

2d. S. heterophylla, Pursh & Nutt. Stem flexible, low, the whorls often distant, always shorter than the upper whorls, bracts ovate, shorter than those of the preceding species, leaves on very long petioles, narrow lanceolate, acute at both ends, rigida, Pursh appears to be the same.

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3d — 1. simplex, Pk graminifolia Nutt — perhaps a form of heterophylla, but I have never seen on it sagittate leaves. Leaves also on long petioles, & blade narrow-lanceolate, scape ~~shorter~~ longer than the leaves with 3–5 whorls of small flowers of long & equal pedicels.

4th — lancifolia, Pursh — gracilis, Nutt. small — Leaves auricled, sheathing at the base and vaginant, very acuminate with a fleshy point, scape shorter than the leaves. — a form with very long scapes labelled by Nuttall lancifolia, with the same kind of leaves, as well as another specimen, labelled S. subulata, Hook. With very narrow almost filiform leaves, are evidently the same.

5 falcata, Pursh — Lancifolia, Mich. a large southern species, with sometimes ovate-lanceolate at other times narrow-lanceolate leaves — a long scape of 8 or 10 verticils of large flowers is a very distinct species.

6 We have, all along the banks of the Delaware & Schuylkill River, a small sagittaria with ovate leaves, sometimes broad in the lower part and obcordate, which might be a small var. of the above, or a form of variabilis or of heterophylla — it has however more affinity to the latter, having obtuse bracts and sometimes the inferior whorl almost sessile — I do not know exactly where to place it.

7. another peculiar species or form is a southern sagittaria With long, linear leaves, apparently floating, from 6–8 inch long 2–2½ lines broad, flowers small, the size of simplex, with obtuse bracts.

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8. S. natans, Mich. Bad specimens, scarcely in flower. Leaves on weak & long petioles, evidently floating, blade ovate & subcordate, elliptic, or ovate-lanceolate and pointed at both ends. This also appears to be a good species, although with very variable leaves.

9. Radicans, Nutt. & Western sagittaria Walt distinct.

So, my dear sir, I count nine species in all of which 2 may perhaps be forms of other species.

How to the Sparganium.

Nuttall's S. americanum is just the most common with simple racem.

Scapes, sometimes slightly compound — inferior head pedunculed — akenes oval pointed — I can find no difference with the ramosum, except the compound racem — on which point they easily pass in each other. I consider them as the same or so nearly so that they are varieties.

These two species, I cannot distinguish from the European Sparganica.

Sp. angustifolium, labelled by Nuttall, has very narrow leaves, grass like, and a simple racem, with 2 inf. heads of female fl. & sup. heads male. So

The racems of the two first species have 4 female & 6-8 heads of male fl.

The akenes of S. ramosum & S. americanum are oval pointed, very smooth and shining.

Your species dydimum! and a specimen collected at West-Chester by Dr. Darlington have larger more round akenes, depressed at top and somewhat pentagonal, or at least with five ribs marked but not prominent. It seems decidedly different from ramosum

Sparganium natans — I have specimens with very narrow leaves and only 2 heads of flowers, in most of my specimens female — Which leads me to

think they might be dioicous. These do not seem to differ from the European species — But Oakes & Torrey specimens from N. Hampshire are rather singular. Their leaves are much broader and longer, I have measured one 3½ feet long & this | | wide. With compound racemes — I have the two forms under the same head; but think they may be separated by some striking character, which I have not been able to find, my samples not being in fruit and being otherwise a poor microscopic Observer.

I do not know what your Sp. caryocarpum is; but have you not Dioicum, if I recollect the name. I am glad you have found a new one, it will be the third you add to the genus.

I have found double stigmes in Sp. americanum and ? also in erectum and simplex of Europe. The only difference perhaps, between the two old american species is that the length of the stigmes and the leaves more or less channelled or more or less flat; but I say for me they are Varieties passing into each other. I have specimens of these two in good fruit — I see no difference

I close my letter, my dear Sir, in assuring you that I expect a gratification in the hope of seeing you and assisting you, if not in scientific part, at least in my good disposition to do for you all I possibly can. I have had the pleasure to become acquainted personally with the two colleagues in Botany, Dr. Short and Mr. Lapham — You will be the third and not the least esteemed. My respects to Dr. Gray — I have not seen as yet his new edition; but I will try to get it when I take this to the post office. I have prefered to write to you on that subject before seeing it, in fear to have to change all my views. Very respectfully E. Durand

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Rec^d - Cambridge Sept 20^th
" " Oct 1^st

Phil. Sept. 18^th 1856

Dr George Engelmann, Cambridge.

My dear Sir,

Since my last of the day before yesterday, I have procured Dr Gray's new Edition. I can now place every one of my specimens of Sagittaria under their proper names. I see with pleasure that I was not much astray.

My two doubtful forms, 1st The ovate-cordate leaved Sagittaria of the Delaware & Schuylkill shores, is your Variety of heterophylla " Elliptica. I have the very same from you in my own herbarium, under the name heterophylla, var. latifolia (I had not consulted my own herb. when I wrote to you.) I have no specimens with leaves 6 x 5 inches, but I have some half this size, much larger than those I saw in the Academy's collections. — A specimen collected by myself in the floating small Lakes of Pocono Mountains Penn^a, is the very same as the Southern specimens, with membranaceous linear leaves, mentioned in my last — Only My specimen has two sets of leaves; Elliptical-lanceolate, and graminean. This, undoubtedly is your var. fluitans. The variety rigida is more common, and all its leaves seem lanceolate-oblong very long flat petioles.

To the simplex, I have a Southern Variety from Texas, Wright under the name of Graminea, Gray & Hale, and from Louisiana, Dr Hale, which is much larger than our Northern plant. The blades of the leaves are very rigid and strongly veined, from 4-6 inches long, narrow-lanceolate-, on petioles fully

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one foot long. Verticils 4–6, on long peduncles. Achenia peculiar to my bad eyes.

After a reexamination of the pumilla, I begin to fear it may, ultimately, prove to be a young or dwarf form of the simplex. I can form an uninterrupted suite of specimens, from the 2 inches all vaginant leaved pumilla, thro' the 9th the double sets of vaginant and petioled simplex, to the all petioled-lanceolate leaved of the Texas & Louisiana specimens — How puzzling!

I find also in my herbarium the very same form of Nuttall's S. arifolia of Oregon — These forms are simply the young plants of S. variabilis, var. sagittifolia.

Your new Sparganium Engelmanni is the same as that you sent me from St Louis, under the name S. simplex of Didymum. Dr Darlington's specimen S. ramosum in ripe fruit is exactly the same. All my specimens, with less advanced fruit of ramosum have ovate pointed seeds. So have those of S. americanum. The former do not appear to me triangular; but they are smooth, shining and the ribs are not prominent. Could not the globular form of your Engelmanni be owing to the more advanced stage of the seed, which fills up by maturity, causing the depression of the summit and this apparent angularity. I say again that I cannot find much difference between the ramosum & americanum, neither in the leaves, the stigmas or the seeds — I will show you double stigmas in true S. americanum —

I have a specimen, marked angustifolium, Mich. by Nuttall, which I hardly think different from americanum, except in size — it is scarcely 1 foot high with graminious leaves very narrow; but it is quite young and just flowering.

I have no doubt that you will find the Sagittaria pusilla Nutt in flower, if you are here in three weeks.

Dr Gray's new edition is a great improvement on the last and, for the part I have seen of it, is exceedingly satisfactory to me. I compliment him upon his dispensing with the synonyms — the is our head, and the names he adopts on the best grounds, must be those of american botanists; otherwise it will remain in the same confusion as to names in which it has been to this day. What a good chance young botanists will find in it to study cryptogamia! Give my compliments to Dr Gray and believe me sincerely yours

E. Durand

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Rec'd April 18th
Ans April 19.

Dr George Engelmann, St Louis.

My Dear Sir,

The object of this letter is to inform you that I sail for Europe on the first of May. Can I be there of any service to You, and can you favor me with letters of introduction to any french botanist residing in Paris? I will return in october. My affectionate compliments to Dr Hilgard, and believe me respectfully yours

E. Durand.

218 South ninth St

Phil. April 14th 1860.

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Rec.d April 30th
Ans same day & May 1st

Phil.a 26 Avril 1860

Dr George Engelmann, St Louis

My dear Sir,

Your favour of 19th instant has duly come to hand, with letters of introduction to Messrs. Decaisne & Gay, for which I am Groenland very much obliged to you. I will take your letter with me in case I visit Geneva, as an introduction to Mr Boissier. I am starting with my hands full of letters to different naturalists, and I hope I will have a pleasant time.

As you will find, I have no doubt, new things in your brother's collection of Utah plants, and will be able to throw a new light on the botany of the Great Salt Lake, I would to like you to write an appendix to my paper, and send it to the Philosophical Society to be published in the Transactions, so as not to separate those two papers on the same subject. If your brother has found the Hedysarum Boreale? and has brought you seeds for cultivation, I would be very glad to have some seeds of your crop reserved for me, to communicate to the Société d'acclimatation de Paris. I am strongly impressed with the idea that it will prove a great acquisition to agriculturists, as an excellent fodder. The specimens I had

belonged evidently to a plant provided with numerous long fleshy leaves forming a considerable bunch. The whole plant is tender & of a sweetish taste which must prove very agreable and nourishing to cattle; and the seeds, which are numerous although small, might perhaps be a substitute to the Lentil. If the seed brought seed from the famous bunch grass, this also might be an acquisition for the arid soils of the West. Col. Kane tells me that there are two different species of bunch grass; one growing on the salt banks of the Lake; another on the rocks of the high land. The latter being eaten with avidity by horses, and the best fodder, he thought, that could be produced.

I have not been able, before this day, to see Mr Trego of the Philosophical Society, who is entrusted with the care of the publications. We have overhauled the different packages of the transactions, without finding a single one number of the two memoirs of Nuttall, which you desire to have. They cannot be obtained otherwise than by buying the Vol. 5 & 8, which are held rather high (5 Doll a Vol.). I have the Atlantic Plant bound in a rather large Vol. containing Fenler, Wright and other botanical Memoirs which may soon [illegible] sent to you —

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If you write to him, and he might get the other Volume from the Philosophical Society — it will be 5 Dollars saved, and you may Keep mine it until october next. You will experience, as I have done, having almost all the plants of Nuttall, that he has been prodigal in applying new names to different forms of the same plant. Nuttall, generally and through his habitual parcimony, collected more small specimens than large ones; the specimen of his Hedyarum canescens is perfectly erect, only about 6 or 7 inches high, but, otherwise, I could see no difference whatever in the leaves, stipules, calyx and flowers except size. The leaves of both are remarkable by being veinless. The H. Mackenzii of Torrey must be the same as mine as well as that of Richardson?

If you have anything to communicate to me During my stay in Europe, address, E. Durand, 86 Boulevard Beaumarchais à Paris. I will be very happy to hear from you and execute your orders. I shall bring you your package of specimens from your friend Groenland. I will sail on the 5th or the Vanderbilt. and return in October. My respects to your lady, and compliments to Dr Hilgard. Excuse my scribling, I am in great hurry

I remain sincerely yours E. Durand)

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Rec^d Oct 19
Ans Oct 25^th

Philad. Oct 15^th 18 C.

Dr. George Engelmann
St Louis Mo

My dear Sir,

Here is a good opportunity to address you a cordial How do you do? and present you my best respects.

At the request of our good old friend Jacques, Gay, I have taken much inquiries about our Isoetes and procured for him Specimens of our three species, and even preserved some in diluted alcohol with the view to keep the cells & Spores in perfect shape. It has happened that J. Engelmann from Wilmington Was sent to me in the dry State and perfectly flattened by excessive pressure. I wrote again begging to have fresh specimens; but, at the same time, I heard that the same Isoetes grew at Darby a few miles below Philadelphia, and Dr Hunt, my informer, promised me to procure me some

These specimens I have just received, and they appear to be so different from

those of Wilmington that, in a great haste,
I send you a couple of specimens, quite fresh,
to submit them to your experienced good eyes.
I have scarcely looked at them myself, but
I have a strong impression that the outside form
of the cell is different and the spores much smaller.
The leaves are not terete, but half cylindrical
(a). Pleas examine it carefully and perhaps
they will reach you in a state to be preserved
in fresh water.

Dr Hunt tells me that they grow in a
ditch full of water and completely immersed,
which the Wilmington plant is not. Some
times, in a very hot & dry season, the water
is partially evaporated and then the tips of the
leaves is out of water. It loses its leaves
in the fall.

Let me know, If you please, What
you think of it; the new American botanist
ought to have the advantage of knowing it.

These specimens asked by Mr Gay are
for Professor Durieu of Bordeaux, who
has lately discovered several new species

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and is preparing a monograph of the Insects.

With much respect your obedient Servt
& friend
E. Durand

My best respects to Mrs Engelmann and a hearty shake-hands to my friend D.r Hilgard.

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Botanical Specimens.

Dr. George Engelmann
St. Louis
Missouri

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Rec'd Nov 30 1860
Ans Jan 8

Philadelphia Twenty nine.

Dr. George Engelmann, St. Louis.

In answer to your favor of Nov. 20th
I send you some small pieces of specimens, with a few
notes taken in haste in the very cold botanical room
at the Academy. You will not call me stingy, knowing
how small and, generally, imperfect are the specimens
of Nuttall. I have done the most I could do to satisfy
you.

2 specimens of Delphinium exaltatum: one of
Riddell! which I think is the true exaltatum; the
other from Collins' herb. Without locality, which might
not be in the same as Riddell's. My fascicles of Delphinium
is very considerable and is marked Great confusion!
My eyes are in such wrecked state that I cannot use
the microscope:

Ranunculus virgatus of Nuttall is neither in my herb.
nor in that of the Academy. There are 2 specimens of
R. circumatus Nutt.! One in mine, the other in Scattered.
Both are in a very advanced stage, presenting racemes
of 24 or more siliques. One specimen has a small
branch bearing 4 flowers, two of which are quite
unpetaled. In the good ones, the calyx is yellow and
tinted with purple — shorter than the bright purple petals.
The description of Nuttall is good. I send you a few leaves
and a siliques. The other species in the two herbaria, are:
obtusifolius, maculatus, sagittatus, heterophyllus, cordatus
stipendus of Nuttall; hyacinthoides, Hook. linearifolius, &c.

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Of the Stanleyae, I send your very poor specimens.

St. integrifolia, Nutt.! might be his viridiflora of second view as I think it is. I have in my herbarium a specimen marked by Nuttall. St. viridiflora which is no Stanleya, the capsule being oval. The root is perennial and long inflated at the crown, with radical leaves angularly lobed at the base; and, below the racemes of siliques a few heads of flowers, perhaps abortive, of which I send you one with a capsule. The leaves are thick, glabrous The lower ones Oval-oblong with strong white rib - cauline ones ovate Subamplexicaule. Might be a Nasturtium?

You will find with it St. Stanleya heterophylla, Nutt! and my S. integrifolia of Torr. (Stansbury's report) enumerated in my Plantae Fremontianae and collected, I believe, in the same expedition. I expressed then my opinion that Torrey and James' plants could not be the same. Sea of I was right!

I send you also 2 specimens of Cleome — One C. lutea, Gray; from Rev. Spalding; the other With Nuttall's table, C. aurea. The figure of C. aurea represented in Hooker fl. B.A. looks exactly like the latter. — also 2 specimens of Delphinium exaltatum - That of Riddell is certainly the true one; but I do not know if Collins' is the same. The leaves do not differ but the flowers of the latter have shorter petals; perhaps not being quite expanded.

I feel ashamed to forward you such poor specimens — although I could furnish you with a D. exaltatum entire specimen, if you desire.

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The specimen of Utah, brought to me by Col Kane were all from the immediate vicinity of Great S. Lake city; but none from the salt banks of the Lake. When you publish yours, I would be glad to have a copy and specimen of your have plenty. If I can be further of any assistance I will do it with pleasure. I have, I think, some specimen of Leguminosae which I could not make out on account of their bad state; and not being able to use the microscope.

Mille amities au Dr Hilgard and to his brother, when you write to him. My regards, If you please to Mrs Engelmann to whom you will please to remember me kindly

Very truly yours

E. Durand

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Rec'd Jan 2d
Ans Jan 8th Philadelphia, December 29th 1860

Dr George Engelmann
St Louis

My dear Sir,

I have received, a few days ago, a letter from Mr Decaisne, requesting me to help him in procuring seeds of American cucurbitaceae for the Garden of plants. Here are his own words: "J'ai entrepris, depuis plusieurs années, de réunir, au Museum d'Histoire naturelle, une collection aussi complette que possible de cucurbitacées vivantes, en vue d'amasser des materiaux pour la Monographie générale de la famille. J'ai déjà réussi à obtenir beaucoup d'espèces intéressantes, mais je suis encore loin d'avoir accompli ma tâche. Or l'Amérique septentrionale n'est pas sans un certain nombre d'espèces de cette famille, et nous en avons déjà quelques unes, entr'autres le Cucurbita pyriformis, les 2 Echynocystis et le Sicyos dimidiatus; mais toutes les autres nous manquent. Il y a par exemple un Bryonia Boykinii, qui nous est totalement inconnu. Enfin, je sais de source certaine qu'dans les Etats du Sud & de l'Ouest

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il y a plusieurs cucurbitacées intéressantes et fort peu
connues en Europe." Pourriez vous, Monsieur De

Now, dear Dr Englemann, can you do
something in this regard? You have paid a particu-
-lar attention to the family Cactaceæ, a common
german of Cucurbitaceæ, have you not also paid
some to this? We have about twenty species of native
N. Am. Cucurbitaceæ and perhaps you may have
the occasion, in the course of next Summer, through
your correspondents to obtain seeds of some of them
for our friend, or perhaps you could tell me whether
any seeds have been sent to some botanical garden
of Europe, where Mr Decaisne could obtain
them. I have made inquiries in different direc-
-tions and I wait for answers before writing
to Mr Decaisne.

Have you received my small bit of specimens?
always at your service, if anything wanted from
me. I thought, in case we could not procure the seeds,
that good specimens with flowers & fruit might be
acceptable to Decaisne. in this view, I have opened
my herbarium and found that from eight species of specimens I have,
I could only spare specimen of three of them, viz:

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*Melothria pendula*; *Sicyos angulatus* and *Bryonia Boykinii*.

With great respect & friendship, I remain

Yours E. Durand

My compliments to Dr Hilgard, and to all your family my best wishes at the approach of a new year.

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Rec'd Dec 15th 14

Phila. Dec. 12th 1864

Dr G. Engelmann, St Louis Mo

My dear Sir,

I send you a few roots, quite fresh, of your Stoetes Engelmanni. I have divided what has been sent to me, between you and Mr Durieux. I received yesterday from Gray a set of Parry's plants from Pikes Pic I see many old acquaintances among them, which I have in Nuttall's poor specimens. Dr Parry's are really beautiful. He must have taken a good deal of trouble in drying them, and he settled on the spot With plenty time before him. Travellers specimens are, generally, very indiff-ferent, for want of accomodations & times. Those lately brought from Texas by Mr Buckley are of this Kind: badly dried and often incomplete, some just blooming, others with fruit only. He is now in Philadelphia, studying his plants. I think he has many new species & several new genera. These plants were collected in Northern Texas. A large box which he had forwarded hence to Academy, have not reached here.

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Now that I have done my best, for several years, to endow our Academy with a fine North American herbarium, I intend, at my next trip to Paris, next Summer, to present mine to the Museum of the Garden of Plants, Where I hope it will be well received as, from What I have seen, They are not very rich in our treasures. I will give it to them under conditions which I think Will be acceptable ::

I want for it One of the small rooms destined to Special herbarium and that to be indicated as E. D. North American Herbarium, with privilege to take from the general collections all the N. Amer-plants they might have to add to mine in order to complete it the more. They will find many Duplicates in my herb. Which may be thrown into their general Collection. I Want good shelving and new paper of good quality, and one assistant to help me in arranging & Labelling. If they had a Comfortable lodging in the Etablishment I would try to obtain it.

Do you think my Collection would be valuable to them and my conditions acceptable?

I am now quite an old man (68) I have

but one son whose hobbies are quite different from mine and I would not have my collection sold for a trifle after my death, I would rather turn it in a place where it would be taken care of and a national property.

I have never been able to procure Veiw: cordat: hort: & V. Lescurii – could you favor me with a specimen of each. Sagittaria Calycina, Elliot: a ambigua Opuntia frag: li & Rafinesquii, I would be glad also to have as well as anything new & rare –

How are you coming on with your Mormon plants? I expect in a few days to have the arctic collection of Dr. Hays – If the specimens are numerous and I am permitted, I will put some aside for you. I have a good collection of our N. American ferns, can I help you to some Lygodium? or many as you want

Aspidium Goldianum do do

&c.

My respects to Mrs Engelmann & believe me

Sincerely yours

E. Durand

218 South ninth St

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Rec Febr. 9
Ans Febr 10

Philadelphia Febr. 4th 1863

Dr Geo. Engelmann, St. Louis, Mo

My dear Sir,

I rejoice to have an opportunity to present you my best regards and hope you will do me the favor of an answer! We have not exchanged any letter for a long While!

I received, a few days ago, a letter from Mr Durieux, director of the Botanical garden of Bordeaux, Who is engaged on a monograph of the genus Isoëtes. I had sent him, through our friend Jacques Gay, all the Specimens of N. American Isoëtes I had been able to procure, and in this operation I was assisted by Dr Gray, who sent me his Whole Suite of this curious genus, With leave to take What I chose among his superfluous Specimens, and even to address the Whole to Mr Durieux — to be returned — This, I would not do; and I contented my-self With Some Massachusetts and New-Hampshire Specimens.

Among Gray's Isoëtes I remarked a very singular one, an unique specimen labelled I. Engelmanni, Illinois, Which, from its general habits appeared to me so decidedly different from Our Wilmington plant that (from that circumstance) I ceased for me to be Engelmanni. Whilst the Illinois plant answered to Braun's description, Leaves slender and light-yellowish green and Crown longer than broad, the Wilmington Isoëtes has its leaves longer, broader, firmer, greener and the crown is much larger than long. If I am not mistaken, the cells of the former are much larger and perhaps of a different configuration — Be so good as to investigate the case!

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To return to Mr Durieux. He complained justly that the majority of my specimens proved unsatisfactory for analysis, on account of the bad habits Collectors have to press that plant to excess and, in other cases, because the plants were too young. However, I had sent him numerous living roots from Wilmington, Darby, banks of the Delaware and Lehigh, which have succeded perfectly and with which he has furnished several other botanical gardens of France and Italy.

The result of his studies on our N. american Isoëtes is this: Wilmington, Darby, Rhode Island (Clinton county Pa) specimens are set down by him as I. Engelmanni (Sporuli reticulato-foveolati, ligulis duplicibus. All others from Rivers Delaware, Lehigh, Passaic, from interior of Pennsylvania, Massachusetts, &c Were your riparia — Others (very small plants) from Kennebeck R. & Echo-Lake, N. Hampshire, one from Columbia River, appear to him to belong to the lacustris; but not one among them was in a state to be relied upon. Mr D. is urgent in his Wishes to receive other specimens, of the last in a better condition; looking upon the existence of an European form of Isoëtes in North America as a curious fact of geographical botany.

Among the numerous specimens I sent to Durieux was an unique one, belonging to the Acad. Herbarium and labelled, I. Lacustris, Catskill Mt. New-York

This, He considers as different from all the Others —
(I cannot find Mr Gay's letter in which he gives me
the diagnosis of that form) but the Specimen was meagre
and he, Mr Durieu dare not use the Knife in fear of spoiling it.
To me it appears to be a diminutive form of your
Illinois plant. I have no acquaintance about Catskill,
but next Summer, I intend going to Pocono Mt
to look for that cats kill Isoetes in the pounds of
the Pocono-Mountain

Mr Durieu will give illustrations of about 20 different species of Isoetes. He will postpone the publication of his monograph ~~until~~ for some time, until he can obtain specimens of the N. Hampshire Isoetes and also of the Cat Kill and Illinois plants. I know that Old good Mr Gay wrote to you on that subject and if I mention it to you, now, it is as much as a pretext for conversation, as it is with the hope that you will help Mr Durieu, if it is in your power to procure him some good specimens from N. Hampshire & Illinois.

Prof. Porter of Lancaster showed me a Week ago the largest Specimen of Isoetes that I have seen — The leaves were nearly 2 feet long; but the crown was perfectly flat from too strong a compression It was from the interior of Pennsylvania and

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apparently the same as the Wilmington plant;
I begged him to get plenty of specimens next
summer, but without pressing the base.
Have you a specimen of *L. flaccida* to spare?
Those of Gray (2 from Chapman) do not seem to be
in a proper state.

Now, my dear Sir, Good bye! Please
accept for yourself and lady the assurance of
my most sincere regards and recall me to the
memory of Dr Hilgard from whom I have
not anything since a couple of years

Very respectfully
E. Durand
218 South ninth St.

Rec'd 24th Feb'y
Ans. March 8

Philadelphia Feb'y 20th 1843.

Dr. George Engelmann
St. Louis, Missouri.

My dear Doctor,

I am much indebted to you for your kind answer dated 16th instant. Before returning to the subject, a troublesome subject for us on the part of our French correspondents, let me, first answer your inquiries:

Pinus flexilis, Nutt. & P. monticola, Dougl. are neither in the Academy's herbaria nor mine. I am sorry for it, as they would have been sent to you immediately.

Vol. 5th, New series of the transactions of the Philosophical Society, containing Nuttall's Arkansas Plants, may be had, at any time, for the sum of $5.. but the memoir alone could not be obtained, except by applying directly to the Library Committee, asking this as a favor, and requesting a deduction for the remaining matter, of which Nuttall's memoir is about one fifth (or 6th). The latter has only 64 pages. A law was passed, some years ago, that no seperate memoir should be sold, except on particular occasions, as such seperate sales leave the Volumes incomplete.

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Some years ago, Mr. Thurber obtained a copy for 2 Dollars.

—— Volumes of explorations are occasionally found at the books-stands, corner of streets. I found one of the volumes you desire at one of them for which I was asked $2, and the man told me he could procure me the others.

—— All vanished are my plans of returning to France. How could I be separated from my little rents, when the exchange is 50 p^r cent against me? I am quite reconciled with the idea of finishing my days in this adopted country of mine, in which I have already spent 40 years of my life. Perhaps had I returned to my father-land, I would have had cause to regret, unavailingly, my son for not, this native land to Europe, which he visited last Summer. What a pity that we are in such direful political troubles of which we cannot foresee the end nor the ultimate consequences!

—— Good bye again, the perplexing Isoetes! You say nothing about my remarks on the Illinois and Wilmington Isoetes. I persist in considering them as two different species, at least the Wilmington plant as Engelmanni, in part only, if at all. You cannot see the two plants together, without being struck at the difference (I speak of the specimens I have in Gray's herbarium.)

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I would give anything to have good specimens of it, with Cases impressed. (Let me know your opinion)

I am much obliged to you for all the details you give me on the North Eastern Poetes - I have sent to Mr W. Booth, who intends to hunt for them next Summer, your description of the locality. Our friend Sartain will probably go also and I will furnish him with the same information. As for me, I intend visiting the Pocono mountain and torment the Cottons of the butterflies in search of something or other.

I have got a full set of Hall, Rocky mt plants for the Academy, With Parry's last collection on the bargain at 8 Doll. a hundred.

With respects to your lady and a good shake of hands to Dr Hilgard,

I remain, My dear Sir, Your most obedient friend

E. Durand

Turn over, if you please

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Queries.

Marsilea

Is Marsilea of Silver Lake, Nicollet's expedition, M. vestita, as labelled & agrees with mucronata

What are: Marsilea № 573 of Lindheimer?

" № 746 do ?

" № 811 of Ch. Wright? Very small plant

" № 745 Lindh. in Louisiana?

---

I send you herewith two specimens of Salvinia

one from Louisiana, Dr. Hale, the other Lindheimer

№ 574.

---

3 Azollas — Azolla occidentalis, Mulk. California

A. Caroliniana, Willd. Georgia

A. Californica, from Bigelow?

The latter is doubtful as to locality & source

---

What is this aquatic plant with long membranaceous, linear leaves, collected by Lindh. № 753 - a Chara?

---

I have specimens of a Pilularia collected by Nuttall at Fort-Smith Arkansas: do you know it? I have not been able to find it, otherwise I would have sent it also.

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Rec'd March 18th
Ans same day

Philadelphia March 15th.

Dr G. Engelmann, St Louis.

My dear Sir,

The part of your letter relating to Isoetes, as well as Dr Darby's specimens were dispatched last evening to Prof Darlington. It will puzzle him considerably; but poor Mr Gray will feel no disappointment at your just claims. The excellent old gentleman is much more. He died last January much regretted by his numerous friends. I send you herewith the last letter of Mr Durieu, which you will please return.

Decidedly your Isoetes is a little (Dr Darby's plant appears to be a fac-simile (only smaller) of a specimen which I recollect to have seen in Gray's herbarium, named, I believe, in your own hand-writing Isoetes Engelmanni.

The leaves, stiff and yellowish green, elongated base and comparatively narrow crown are so different from those of our Wilmington, Darby, Lancaster and N. Jersey plants, that I, who am not a microscopist on account of my bad eyes, have always been inclined to consider them at least as varieties, and

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this opinion I had expressed to Durieu, as you will perceive by his letter.

I cannot say what Cauby Proctor no 2 is, it has remained in the hands of Mr Gay and Durieu does not say a word about it, but it also resembles Gay's specimen by the leaves and elongated base, with this exception, however, that it had a conical fleshy root on the top of which rested the few leaves that remained (It was later in the season.) It seems to me that Gay's had also something of it in a lesser degree; but no such root exists in ours plants, They have only a flattish base or disk, under which the radical fibres are attached.

The unique specimen received from Cauby I sent to Durieu and it was this form of which he found a single specimen among the seventy five ~~roots~~ plants I sent to him and which he considered as Eng. elongatum. The existence of two forms in the same locality had induced me to conjecture that these might be male and female plants and this opinion I expressed to Mr Durieu in the letter that, with the specimen has remained in the hands of Mr Gay.

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Judging simply from the habit and general form, I had been led to think that our N. Jersey Isoetes might also prove a different species. As in the different species of a genus, seeds are sometimes similar, I thought the spores might also resemble each other in different species of Isoetes. Mr Durieu is exactly of your opinion and has pronounced our N. Jersey plant an Engelmanni. I, of course, bow down to the opinion of my superiors.

Towards the end of September, I will send you and Mr Durieu more of the Jersey Isoetes and with regard to finding the new form to be rejoiced of in the same way. Your discovery of the male plant is very interesting to me. I wish my remarks with regard to the possibility of male and female plants existing in the Wilmington vicinity to be realized.

With the exception of Canby no 2, which might also be the male plant, I have never seen a specimen of our plants with the narrow and stiff yellowish leaves of the Illinois plants, although they are exposed to drought as well as the others, and have been found sometimes in almost dry mud. Hall wrote to me in the beginning of our correspondence that some of his plants grew in shallow water that dried up early in the summer and others of a larger form in deep water.

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yet the leaves of the largest specimens of it all have the same characters, narrow & yellowish leaves.

Dr Short's herbarium is really a splendid affair. In location, elegance and style it is without equal Just 300 Volumes and a heap of unopened packages among which are parts of Wright's last N. Mexico collection, of his Plantae Cubanenses, Tweedie's Venezuelan collection, Hartwegs flora Neo-Granadaensis, Cavanilles, Gaudichaud's, Berlandier's herbarium, &c. &c.

This splendid herbarium was bequeathed by Dr Short to the Smithsonian institution who could not accept it as all its collections belong to the Government. The family applied to Gray for advice and our friend had the generosity to indicate the Phil. Academy as the proper place for such a deposit. It has been given without reserve, only on my promise that it will be properly cared for and open to any respectable student of botany — and kept specially as the Shorts herbarium. To give you an idea of its importance We have spend 150 Doll. for packing and 131 for freight.

(I have been working & exploring every winter to enlarge the collections of the Academy and I am sorry to say that I have not yet exhausted the Flora of Texas.)

My regards to your lady and compliments to Hilgard. Believe me sincerely yours E. Durand

Rec^d March 23^d
Ans 28

Phil^a. March 18^th 1863

Dr Geo. Engelmann, St Louis.

My dear Sir,

Your favor of 8^th instant involves many subjects which I will try to answer in the order of its paragraphs.

(Not satisfied with specimens of dry plants, I have placed in my herbarium all the plates of Michaux & Nuttall, sylvæ and all other figures that I have been able to collect in the Vol. of Explorations & others — between 7 & 800.) The same remark that you have made with respect to the figure of Nuttall's Pinus flexilis, I had made myself long ago: In searching my herbarium to compare P. flexilis & P. Strobus, I found the figure of Nuttall's flexilis in the sheet of Strobus, and the former given as a synonym of the latter in my general catalogue of all the N. American plants published to this day, which I use as an index to my herbarium.

These two species are certainly allied, but the difference is even in the cone and leaves in striking. The cone of flexilis is ovoid and much larger than that of Strobus which is cylindrical, and the scales of the former are thicker, harder and of a bright orange color, whilst those of the other are thin & blackish. In fact that you have not a good cone of P. flexilis, I send you a few scales of a beautiful one that I have.

Except in the true manica that possessed Nutt

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To Prof. A. Brown. Please detach & mingle all that are
leaves of different species; & separate a good set
for yourself & help yourself to the remainder.
With these are two specimens from Fendler, Wright
& Fr, With a few specimens of a Spiculariæ collected
at Fort Smith, Arkansas, by Nuttall. Should it
improve different from the European, it would be an
interesting fact — and even if it proved to be the same
I never looked before at this order of cryptogams.
I have not heard that either Salvinia & Spiculariæ have
ever been found in the Atlantic States: Mr. Canby tells
me that Marsilea Vestita had been found in Connecticut.
(I cannot say positively Whether he said he was told so,
or Whether he knew it to be so.)
I have overhauled numerous stands of 2d hand books
for the 3 Vol. of Explorations, Now here could I find them
for less than 2 a piece. I then returned to my first
bouquiniste and told him that I was limited to 5.
for the three Volumes. With much difficulty he
consented, to let me have them for the price
showing me the bill of 3. 4 for the
two Vol. he had bought himself to complete my order.
As to the Vol. of Transactions, I could not obtain it
from the Committee of publication for less than 5
Which is the subscription price for each Vol. of the
Transactions. I am sorry that I could not do
better. I send you my two numbers of the proce
dings of the Academy of Nat. Sc. in which you

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w^ill find the gramineæ of Buckley. From N^o. 1, I took
the first part of that very scientific and very honest
publication. The first N^o. was sent to you by himself;
but the second (probably was not sent;) he knew already that Gray intended
to revise the whole and the consequence of that revision.
I have now Elliùia ambigua and Sagittaria
Calycina; but I shall be much obliged to you for Vesicaria
Shortii & V. Lescurii; I have a bad specimen of what
I consider the latter, from Rafinesque's herbarium;
but I am not sure.
I thank you for your assistance in naming the
Texas & N. Mexico Morilea.
You may have had the chance to compare
the Illinois & Delaware (Wilmington) Isoëtes —
Do you think now they are the same? Since I saw
the Illinois specimen in Dr. Gray's herbarium, I have
maintained that they were different physiognomically
but the cells & spores may be the same. However
this would not establish their perfect identity.
Hall tells me that the leaves of this plant disappear
in the summer, our remains green even under
ice, during the whole Winter. Please answer this!
Very respectfully & affectionately
Your devoted servant
E. Durand

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I presume that Nuttall found his Pinus strobus
in the localities specified and mistook it for Col.
Long's Pine. His figure looks more like the
specimen of Strobus of Dale, Wisconsin, than
like our eastern Strobus, the leaves of which
are much longer than, with its Western congener.

I send you, at all events, the two specimens
of Isoëtes (Western) received from Mr Canby,
in order, in case that you have none, that
you my compare them with a spec. of Darby
that has not been pressed and which I send
you at the same time. This you may keep, but
the other you will return, if you please, with
the specimen of Chara you may reserve
for me. Keep the Arkansas Pilularia
if interesting to you, I have divided with you what I had.

I have not paid for the Vol. of Transactions;
I will do it next friday, when I meet the
treasurer at the meeting of the Society.

I believe I have said all that I had
to say, so adieu!

T. D.

I intended to send my package wrapped in strong paper,
but, upon reflection, I think it will be safer in a box, for
which I have paid 15 cents. It will be sent to you tomorrow
by Adams Express; Look out for it.

When did you describe your Sagittaria calycina
& variabilis?

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Ans May 4 ult

Philadelphia April 5th 63

Dr Geo. Engelmann,

My dear sir,

Your of 28th ultimo covering #10.15, has duly come to hand. Mr Hall has also promised to send me five Insects for our Insect-crazy Frenchmen, Guy and Du Ricey, as Dr Gray calls them.

The specimens of Pinus flexilis, I have are Tenders No 832 Without fruit, and that of Parry marked A by Dr Gray. This With a cone 4 inches long by 2 1/2, of Which I sent you some scales. As to the Original of the figure in Nuttall's Sylva, I cannot find it any where. You know this Work was published very carelessly during his absence. I have in my collection a Pine from Nuttall labelled (Pinus strobus) by him "Pinus described by Coulter, Point - - - - - Monterey, California" (Probably P. Coulteri, Don. Leaves 3 in a sheath, 4-4 1/2 inches long - no fruit. Would you send it? I have not seen the seed of P. flexilis, I do not see any in the scales of my cone.

The opinion you express about Nuttall is also mine and I have proofs in my own herbarium Where I have Specimens of the same plant that have been named Several times, for the difference of names. But the poor man is dead, let us say nothing of it, unless confidentially.

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I do not think, however, that he did it intentionally; he fell in his last days, in a kind of descriptomania, like poor Buckley, seeing a new species in accidental new forms produced by age, soil or exposure.

Your request to let you send to Prof. Braun big lot of Chara indicates that there may be something new among them — certainly do so and may he reveal some addition to the N. American flora. At the same time let him help himself when there is occasion.

The pilularia of Nuttall, you will find it noted in her Arkansas flora p. 140. I send you herewith the label attached to it in the Academy's herbarium. It is not in Nuttall's hand-Writing; but I think in Pickering, who assisted Nuttall in his labors and had charge of the herbarium at that time. Please return it.

I never had any of your specimens of Isoetes from St Louis County. I saw one in Gray's herbarium, With a very long Crown much longer than Wide, the facies of Which appeared to me very different from our Wilmington forms; and it precisely what I have asking you 2 or 3 times — are they really the same in the figure of their spores? Hall's specimen appear to be the same as that I have seen in Gray's herbarium, only they are much smaller. Dr Hunt tells me that

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the Wilmington Isoetes it found in all the prairies of the Delaware, on both sides of the river. We have it at Darby 6 miles below Philadelphia, and Prof. Porter found it in Lancaster County."

If you have a specimen of Sagittaria Calycina to spare, I would like very much to have some. - I have of course the Variety spongiosa.

Respects to your lady and remember me, if you please, to both Brothers Hilgard.

Truly yours

E. Durand

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ENGELMANN PAPERS

Dr Gray's enumeration of Mem. Hall & Bost. Rocky Mt plants is now printing in the Proceedings of the Phila Acad of Sciences. It will be followed by the enumeration of Arctic plants brought by Dr Hayes, with notes by you & Dr Newberry.

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Rec'd May 14th
Ans. Aug 22d

Philad. May 10th 1863

Dr. Geo. Engelmann,

My Dear Sir,

The first part of your last favor has been sent to Mr. Tatnall who will, I have no doubt, attend to it to the utmost of your wishes. It is much better hands than mine, Mr. T. being a young, living in the country and an arboriculturist. I will do on my part what I can, but I am old now and have laid aside country excursions.

Mess. Hall & Harbour's extra copies will be sent to them in a few days. There are fifty copies for them to provide Western botanists, but I will send you one directly to avoid any delay.

I thank you in advance for me and Mr. Dennoulin for your paper treating of the fungi of the grape.

Mr. D. is a most amiable man, but rather gossiping, as Gray says of him. He has used my correspondence with him rather too freely and introduced in his memoir matters which he ought to have considered confidential. I forgive him with all my heart, for all his otherwise good qualities.

Mr. Winder has, in the eyes of political fanatics, the misfortune of having Southern sympathies. He

Phila. May 10th 1863

is a Baltimorian by birth and the son of General Winder, one of the Commanders at the battle of North Point in 1814. He has been settled with Philadelphia for these 30 years past and bears the character of a quiet and honorable gentleman, perfectly reliable in every other respect. I have not read his pamphlet — I bewail the blunders of the political leaders of both sides; but I keep aloof of political parties. Exasperation may have led him too far in his censures on Seward & the administration and a certain allowance may made for his position. His brother is Major General in the Southern army.

I send you herewith a letter received about a week ago from Mr. Du Rieu. The part relating to Isoëtes will greatly interest you and you will see that he and Mr Gay are greatly embarrassed about the Illinois & Iowa species, which they have found to be different from our Wilmington Isoëtes and have named I. Melanopoda. Now they suspect this to be your I. Microsperma and are unwilling to publish it under their name, if it be yours.

Please answer this question that I may transmit it to Durieu — and return me this letter.

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E. Durand

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Rec'd Jan 16th

Dear Uncle G. Philad. Jan. 12th 1864

Dr G. Engelmann,
St Louis Mo

My dear Sir,

I received yesterday your favor of 6th instant, announcing that Nuttallia ARKansana Pike Lemna was a new species, baptized by Prof Brown P. Lemna Nuttallii. As this individual is a native of the Arkansas territory, Virginia, you may perhaps find it as far north as Missouri.

But what you say of Sloanea rubiginosa of good old Bay, and your suspicion that it may prove to be only a form of L. Engelmanni puzzles me in the highest degree. Your homonyme is really a most extraordinary individual. a true Proteus!

Nature having refused me a good pair of eyes, I have never been able to become a good botanist. The use of microscopes would make me blind, etc. even with painful results that I handle an ordinary magnifying glass. Therefore my botanical researches are confined to the facies and general habits of a plant. When our Doctor-in-med friends begged me to send them a specimen of our Doctor, I suggested Gray to assist me and he sent

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me all the Seed, with permission to help me. In
this lot, I perceived an entirely new face, labelled,
I believe, in your own hand "Isoetes Engelmanni
Illinois - So far, I had doubted that our Wilmington
plant was that species; it did not answer the description
" Leaves slender, soft and flaccid, of a light yellow-green,
the dilated base longer than broad" But, when I saw
your plant, fully answering the description, I exclaimed
"Here is the true Engelmanni, Ours is not!
I immediately, at the request of Prof. Darlington, I
obtained from the very obliging Mr. Canby a fresh
root which I dispatched by express to Bordeaux.
" It was late in the season, the leaves were nearly
separated from the root and the spores dispersed in
the mud surrounding them. They arrived safe,
were planted and every one gave in the spring,
a vigorous Vegetation.
Last fall, Darlington wrote to me, mentioning that
on those sixteen plants, only one had proved to be Eu-
gelmanni, and requesting me to inquire from Canby
how it was so; if all came from the same locality,
&c. I communicated the fact to Canby who searched
the old locality and found, in fact, two very different
forms, One of which sent to me was the fac-
simile of the plant I had seen in Gray's collection
first puzzle!

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At the end of September last, Professor Leidy brought me a beautiful specimen of Isoetes. Which he had found in a ditch, 4 miles from Camden in the Jersey: The root was globular, the foliage abundant and the base of the leaves almost round. This, I sent to Du Rieu and a few days after I started for the locality. It was the first time that I saw an Isoetes in its element. The ditch was not deep and the water was perfectly limpid. The bottom was covered with those Isoetes, green fully displaid on the bottom en rosette and (they) perfectly flat on the mud. In places where the water was shallow, the leaves did not stand erect as the Wellington plant, or the Illinoise, but were related (but compared) of the old Engelmanni plant. The mud in the bottom was so light that I could force my hand under the roots and lift them up with great ease. Such different habits indicated, (selon moi,) a different species. What was my astonishment when the next letter from Du Rieu told me that that also was I. Engelmanni. 2d puzzle!

And your letter brings me a 3d puzzle.

In my reply to Du Rieu, I maintained that the microscopists neglected too much the facies and habits of plants; that spores might affect

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the same forms in different species, as it happens some
with
times, in the seeds of different species of phaenogamous
plants, &c. &c. &c. & other branches.

I have remarked in the specimen of Engelmanni,
lastly received from Canby that the leaves grow on the
top of a true tuber and not round a cylindrical
root as I have remarked it in the Wilmington implant.

It seems to me that this was also the case in the
specimen which I saw in Gray's herbarium.

I have sent your letter to Dr Riley with
loss of time. I had not time enough before
to translate it and as he is now working his
monograph and is perhaps now ready to publish
it, I thought it was urgent that he be in possession
of the information which it contains.

I send you a specimen of our N. Jersey
Yucca - I have only another one which I keep in
fear that the locality be destroyed by hogs. I had
the stupidity to tell the farmer upon whose ground
they grow, and who had the curiosity to come & see
what I was fishing in his ground, that the hogs
were very found of these roots - and I saw that he
was a hog-raiser. I also send you the half of
my lot of Pilularia Americana

God bless you and believe me your devoted
friend E Durand

Rec'd April 2d
Ans June 26

Phil. March 29th 1864

Dr G. Engelmann,
St Louis Mo

Here, my Dear Sir, are seeds of the Pinus excelsa. Sow them and naturalize this fine tree in your regions. It is really a beautiful pine of the Strobus section with long glaucous leaves hanging down gracefully like a Prussian military feather. The cones are of a large size some of them nine inches long.

The Pinus excelsa is very common in our nursery gardens, but none have as yet given fruits, except 2 very young trees on the farm of my friend Mr Fiot, near Bethlehem. I attribute their fecundity to the mountain air; Mr Fiot is about 400 feet above the Waters of the Lehigh, half way in the mountain. He had about 20 cones, on one tree, and two, at my suggestion, have been reserved for you. I have requested my friend to watch the flowers and prepare some for you as well as those of other exotic pines which he planted some 12 years ago.

You must forgive Mr Durieu for his exagerated expressions with regard to the Son of good old Mr Gay.

He was very intimate with him and looked upon him as a father; I know that Durieu was much indebted to him for services rendered to him and family.

I cannot say now what species of pine are in the Short herbarium. The botanical room is not heated and I cannot work in it as much as I should want. Therefore everything there is all up down, as many changes were called for to make a respectable room to that fine herbarium. In spite of the weather and my old age, I have ~~not~~ been able, in several occasions, to undertake to work in that room and the consequence has been a heavy cold threatening to turn to a pneumonia, a disease which has been particularly fatal this spring to several of my old acquaintances. A remedy applied in time has relieved me and cured me later by enchantement. It has proved so effectual with several others who, like me, have used it that I will give you its formula and recommend it highly to you. It is a mixture of

4 grains true Hermes mineral, 2 gr. Sulph. of morphia with 4 oz Syrup of Wild cherry bark a teaspoonful 3 or 4 times a day. But I scarcely

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took half a teaspoonful at once, and I have not used altogether more than one third of the bottle. Avis au médecin.

Pourquoi n'avez-vous pas continué en français Votre lettre si bien commencée?

Your Isoetes Engelmanni is like your Sagittaria Variabilis, except that the latter has Varieties and you do not seem disposed to accord any to the former: as for me, as long as the Illinois plants do not furnish forms similar to our eastern plant, I will be inclined to look upon them as Varieties. However Canby's No 2 had the fewer remaining leaves so much like the Illinois plant, that they may have been the male leaves, whilst those large ones which we have had all along are the females. A further inspection will throw more light on the subject. I am not a microscopist, of course my opinion goes for nothing in this respect; but, formerly, looking with the ordinary glass to the spores of Isoetes riparia and comparing them with those of our Wilmington plant, I could not see any difference and I concluded they were the same, the one tormented by the current and the other of the Waters, on a sandy and gravely soil;

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The other, fattened in a rich soil and tranquil and limpid water. After having seen the specimen of Engelmanni in Gray's herbarium answering so completely the description of Prof. Brown, I was no more able to reconcile myself with the idea that our Sioeta was Engelmanni. The base of the leaves is not elongated as the Illinois specimen and it has not appeared to me much longer than broad. Still I submit to your superior knowledge and experience. By the by, Hall has sent me 6 numbers of Characeae. Has he sent any to you? If he has not and has no others to send to you, I will send you mine. If you have received some, will you give me the names according to their number? Has Prof. Brown described those You transmitted to him last year?

Very respectfully, my dear sir,
your humble servant and friend
C. Durand

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Rec'd July 8
Ans. do

Phila. July 3d 1864.

Dr Geo. Engelmann, St Louis.

Mon Cher Docteur,

Thursday, Sunday, for me my day of rest & prayer, is always a very quiet day and that which I choose for my correspondence, except when I write to our friend A. Gray. I returned last Wednesday from a two Weeks visit to my friend Prof, and sundry excursions on the mountains and found your letter. Which I have misled and, probably, left in the sheets of gen. Pinus or Callitriche at the Academy's botanical room.

Before resuming my work at the Academy (that of overhauling and placing in the Short's herb. the packages of plants unadened or yet unentered) I prepared myself to satisfy the wishes expressed in your letter. I first attacked the Callitriche of which I have made an abundant harvest in the Acad.y's herb.m and in my own, each in separate packages. After retaining sufficient parcels for your study, please return them with notes and mention the forms which you would like to have in larger quantity and, where there is possibility of satisfying you fully, it shall be done. In some instances the specimens are scarce, in others, they are abundant.

I never studied the genus which I think is generally very imperfectly known. This done, I resorted to the genus Pinus of which I will give you, as desired, a

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list of the species contained in each of our herbaria. Seldom are the specimen accompanied with flowers or fruit.

I have, as ide for you, male and female fl. of P. excelsa with a large cone, almost, if not entirely devoid of seeds which I have shaken off to send to Darlington & yourself.

I have Written to Prof. Porter, with request to send me a full one with the young cones of this & the preceding year. Mr. P. neglected or forgot to collect flowers of this exotic pine.

I have also for you a good cones of P. pungens, a ripe one and a young one and leaves detached from a branch presented to the Academy by Prof. Porter, from the mts of Pennsylv. Where it has been found in several localities by different persons. Also, What I have been able to procure of the P. pseudostrobus, of Which all the specimens are only branches With leaves only — Also, a branch and parcels of Abies Fraseri, principally from my own herb. both from the White mts and from Wisconsin, Lapham. Is this all I could do to meet half way your desiderata.

If, from the subjoined list you desire to borrow specimens, I will send them to you With pleasure.

What I have put as ide for you is too bulky to be sent either by post or express Without great cost. I will therefore look for an opportunity, When I have heard from Mr Prof. I think I can find some Direction

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or other tradesman who will consent to pack it up with his goods to some house in St Louis — unless you order it otherwise.

My poor memory is too bad to recollect all the inquiries of your misled letter. I will only answer those which I have retained:

How is it that the seeds of P. excelsa did not germinate with you? They were the same that I sent to Mr Durieux, and which succeeded so well?

Nothing new about Ivories. I can scarcely reconcile myself with the idea that our Ivories are the same species as the Western ones. It seems to me that their habits are very different. When I saw your specimen of Engelmanni in Gray's herbarium, I could not help exclaiming: This is not the same as our Wilmington Plant! Here I have leaves slender, soft and flaccid, light-yellowish ~~color~~ green, with the dilated base remarkably longer than it is broad. The spores may have the same characters; but, certainly, the above description of the leaves does not apply to our plants, which, to say the least, are a remarkable var. of your Western Engelmanni. When I sent to Durieux the Yuccas specimens, I said to him: These are identical to the specimen I saw in Gray's herbarium.

Yours cordially E. Durand

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| | Short leaf. | N. A Herb. | Dwarf leaf. | Genuine leaf | |
|---|---|---|---|---|---|
| Pinus, Banksiana, Lamb. | ! | ! | ! | ! | Hudson's Bay |
| virens Ait. | ! | ! | ! | ! | Labrador |
| pungens, Mich. | ! | ! | ! | ! | Virginia |
| glabra, Walt. | o | ! | ! | o | |
| Resinosa, Ait. | ! | ! | ! | ! | |
| mitis, Mich. | ! | ! | ! | ! | |
| Edulis, Eng. | ! | ! | ! | o | |
| Osteosperma, Eng. | ! | o | o | ! | Mexico |
| Sylvestris, L. | ! | o | o | ! | |
| pinea | o | o | o | ! | |
| Rigida, Mill. | ! | ! | ! | ! | |
| Serotina, Mich. | o | ! | ! | ! | |
| Taeda, L. | ! | ! | ! | ! | |
| palustris, L. | ! | ! | ! | o | |
| ponderosa, Dougl. | o | o | ! | o | |
| muricata, Don | o | ± o | ! | o | |
| Chihuahuana, Eng. | ! | o | ! | o | |
| Contorta, Dougl. | o | ! | ! | o | |
| Lambertiana, Dougl. | o | o | ! | ! | |
| Insignis, Dougl. | o | ! | ! | o | |
| Strobus, L. | ! | ! | ! | ! | |
| Llaveana, Schiede | o | ! | ! | o | |
| aristata, Eng. | ! | ! | ! | o | |
| Lambertiana, Dougl. | o | o | ! | o | |
| flexilis, James | o | ! | ! | o | |
| Occidentalis | ! | o | o | o | Mexico |

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Rec'd July 13 64
Ans'd Aug 13

Phil. July 10th 1864

Dr. G. Engelmann, St. Louis, Mo.

My Dear Sir,

Before starting for a visit to the anthracite region and its very arid mountains Where I found nothing Worth the fatigue of climbing those rocky hills, under the weight of my 70 Winters, I had placed in the hands of our friend James, the Ergologist, a package for you, With request to enquire among his market St. friends if any of them had goods to sent to St. Louis, and would be obliging enough as to place this package in the box of invoice. At my return yesterday, I heard from James that my package had been dispatched in a box of goods to a St. Louis Druggist of the name of Geist or Gept. I have no doubt that it will arrive safe.

This package contains, 1st flowers and cones of Pinus excelsa — 2d a branch With fruit of P. Montana — 3d & 4th Young and ripe cones of P. pungens of the Pennsylvanian mountains — 4th An incomplete specimen of P. australis, of Which I can give you large leafy specimens — if you desire

5th what I could spare of Abies Fraseri and, finally all the forms of Callitriche that I found in our herbaria.

I have not found yet your last letter left, I have no doubt in the sheets of the genera Pinus, Abies or Callitriche; but I recollect that you make the query: is Kermes mineral the oxided sulphuret of antimony? no! see the U.S. dispensary and Pharmacopeia.

Believe me as ever your devoted and respectful friend

E. Durand

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Rec'd Aug 24
Ans Octo 18

Phil. Aug. 21st 1864

Dear Doctor Engelmann,

The specimens of Callitriche heterophylla, pedunculata & hegiloides, Nutt. Which I sent you are all I had in my herbarium and must be labelled in the hand-writing of Nuttall from whom I had them. If I am mistaken, I will rectify it when I see them. I now communicate to you two specimens belonging to the Academy's herbarium, both labelled by Dr. Pickering, or Dr. Briges, who assisted Nuttall in his labours at the Academy. The label must be considered as authentic and written under the eyes of Nuttall. There is too C. hegiloides, Nutt. in either the Acad. N. Am. herbarium or the general herbarium; but in the latter I find two specimens of french Callitriche, coming from Prof. Bastard of Hyeres, an old correspondent of mine; which with my whole collection of European plants, I presented to the Academy some thirty years ago. I send them to you for examination - the narrow leaved one I consider as C. hegiloides. But the most interesting of all is the small bit of C. pedunculata of Dr. Hale of Louisiana, so well marked in the long pedicels of the fruit, which, with my poor eyes,

I do not perceive in Nuttall's specimen.
It is remarkable how small plants are those
Arkansas ~~Louisiana~~ specimens! I believe you
are perfectly right in your suggestion of Nuttall
changing his C. sessilis in C. preploides. The specimen
I sent you as Nuttall's are certainly so.

... De Candolle in his Flore Française, acknowledges
two species of Callitriche: C. sessilis, With var.
α - Verna, β vestivalis; γ dubia, δ autumnalis.
In Prodromus, he describes 1st Verna, With γ Var.;
2d pedunculata; 3d autumnalis, L.; 4th terrestris, Raf.
I hope you will clear up the shadow that overhangs
yet on that genus. In short herb. there is a quercus
obtusiloba, Eng. Mexico, Gregg No 52. Is this
P. Cembroides, Sm.? None of our herbaria have
this species. In the same herb. is also the P. Llaveana
of Mex. Bound. Which you say is Cembroides.
I have in my own herb. Ch. Wright No 670
which I had marked Llaveana ??? by its
resemblance With fig. 53 of Mex. B.^a although
all the leaves are in threes - But it is only a
small branch, without fruit or flowers - I believe -
now it might be the true Cembroides - the leaves are short
and all in threes.

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Are you acquainted With our great goldiner Botist? If you are request him to prepare for you, next Spring, flowers and cones of his pines: He has, I believe, the largest collection of Coniferous trees in the Country. If you are not acquainted With him, I know him enough to ask him this favor.

I am much obliged to you for your Specimen of Hypobrichia Nuttallii, forma terrestris. It has been so hot this summer, that I have remained quietly at home. My friend Fiot has been rambling on the Pocono for a Whole Week. I hope he has been successful He will bring me all his collection in the first Week of September.

Now farewell, my dear Doctor, I hope my Specimens will assist you and believe me always ready to help you in everything I can.

Yours, sincerely

E. Durand

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You will, I pray, return the specimens. Tell me of my own some parcels if wanted.

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Rec'd Nov 16th
Ans Dec 4th

Philadelphia Nov: 13th 1864

Dr Geo. Engelmann.

My dear Sir,

Your of Oct. 18th accompanying another to our friend Gray, arrived too late for the latter, he was gone. but I sent it to him the very same day.

I have specimens of Callitriche from Louisiana, Dr Hale and fr. Illinois, Dr Mead, which, from the figures in your letter, appear to be C. Austiniana. I send you another from Bethlehem, Mr Wolle, and labelled by him Orgelta bicuspidata, which might prove also the new species. Should it be so, it would be an interesting fact for you. I will inquire in our botanical club, whether any southern forms of Callitriche have been collected. Canby might give you some information about Callitriche of the Delaware and Eastern Shores of Maryland. I will ask him, next time I see him.

We had pleasant times with Torrey and Gray's visit. They spent four days with us and we gave them an entertainement worthy of our acknowledged leaders in botany. We sat 15 at the dinner table and broke up at 12 o'clock only. I shall not forget Buist and will recommand the same to other Nursery men.

Do excuse for letter of the 18th ultimo; now to no 2 dated Nov 3d;

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After having over glanced Rafinesque's medical Flora and four of his pamphlets I have at home, without finding any trace of his Callitriche terrestris, I recurred to the Academy's library and found there, besides his med. flora, 5 Vol. of his botanical tracts, but there also I found no clew to C. terrestris; ~~but~~ none of his publications there extented to 358 pages. his new flora of North America, however, according to the notice of his publications, was to have 400 pages and it is incomplete both in my library and at the Academy. In perusing the introductory of one of his pamphlets I see the name of Mrs Austin as one of his correspondents and I would not be astonished that it was the plant of Austin that Raf. described.

With the view of searching again for Rafinesque's specimen, I opened once more all our herbaria; but without succes. I referred also to the copy of DC's prodromus in the Academy's library to see what was said in relation to it, and I found paragraph 4th of Callitriche triply crossed over with the pen and the following note: "C. verna in exsiccatis crescens, Charles Pickering! Both references of De Candolle are evident mistakes: The first is a riddle; the 2d is, as you say Fl. North. States or Fl. United St.

Let me say, en passant, that Rafinesque is not to be trusted in any way; he was both crazy and a rogue.

You know that I bought his herbarium and I could show you one hundred (into) specimens of European plants, made up, new genera and new species (said to be) from New. Oregon, New-California, Rocky and Apalachian Mts., Texas, &c. &c. All insane lies. As to his facility of forming new species, I will give you an instance: He met me once, returning from an excursion, with a handful of spec. of Pontederia, all collected on the same spot. & there he published some weeks after three distinct species, based upon the configuration of the leaves, one of which was Obliquiloba.

Nothing, my dear sir, will make me bad or cross, when you request me to assist you in your scientific researches. Unable, directly, to do anything for the advance of science, it is the least that I help those who are able, when the call upon me.

Now Farewell I believe me always your
Devoted and affectionate friend
E. Durand

Looking over the herbaria for Ruf. plant, I found in general herb. a C. terrestris, marked Carolina, in terra. and in Shorts herb. another from England, Wilson.

Excuse the scribbling!

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ENGELMANN HERBARIUM